



# ***Military Health System's PHR with Microsoft HealthVault and Google Health***

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# AGENDA

- Define the Personal Health Record (PHR) in the Military Health System (MHS)
- Define the MHS PHR Strategy
- Examine the PHR as a vehicle for Health Information Exchange
- Evaluate lessons learned from MHS's effort with Microsoft HealthVault and Google Health
- Establish privacy policies
- Demonstrate MiCare

# The MHS Healthcare Environment

- **MHS direct care facilities**
  - 63 military hospitals
  - 413 medical clinics
  - 413 dental clinics
  - 133,500 MHS Personnel
- **In any given week, AHLTA supports**
  - 2.2 M prescriptions
  - 642,400 outpatient encounters
  - 102,900 dental procedures
  - 19,600 inpatient admissions
  - 2,100 births
  - Uniformed service members, retirees and their families



*Andrews Air Force Base*

# Definition: PHR

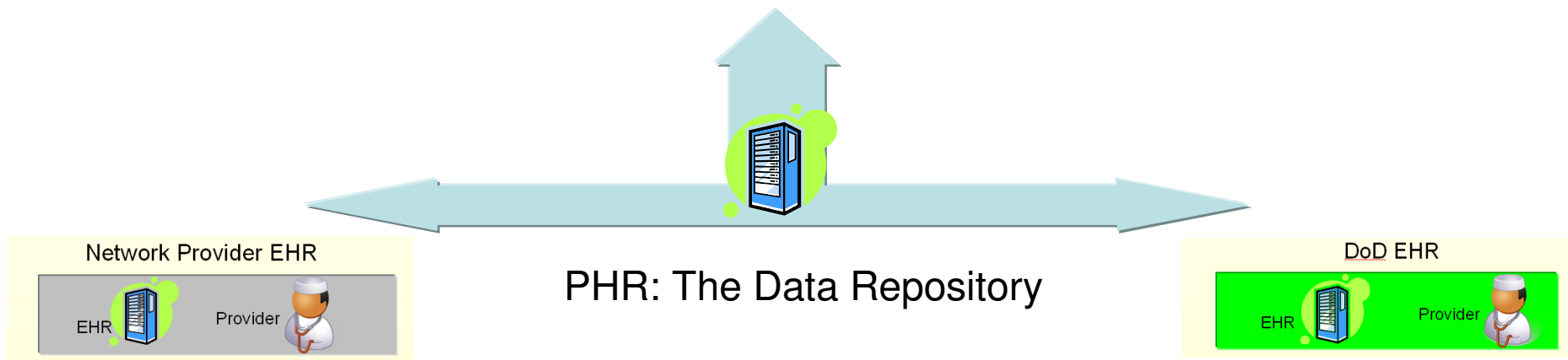
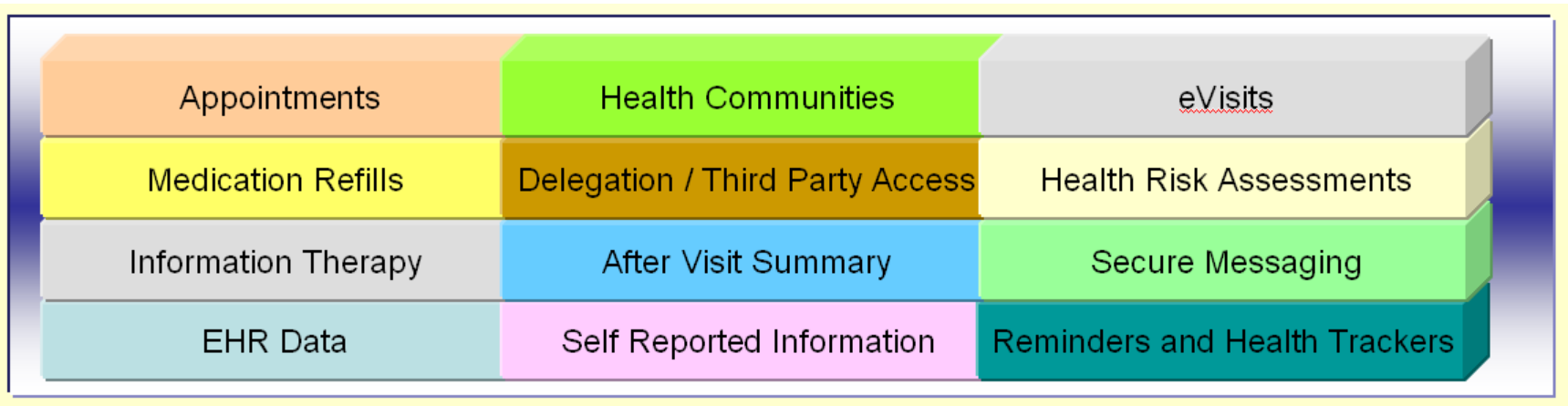
The PHR is a set of tools that enables beneficiaries to:

- Access their longitudinal health information  
Example: problem list, medication, allergies, lab results, clinical notes
- Enhance the interactions with their healthcare team  
Example: secured patient and provider messaging, pre and post visit communication, medication refill request
- Participate in wellness, preventive medicine, and self care activities  
Example: notification and reminders of preventive services, health risk assessments
- Receive information about therapy and health education  
Example: background information about patient specific medication or drug, targeted health information

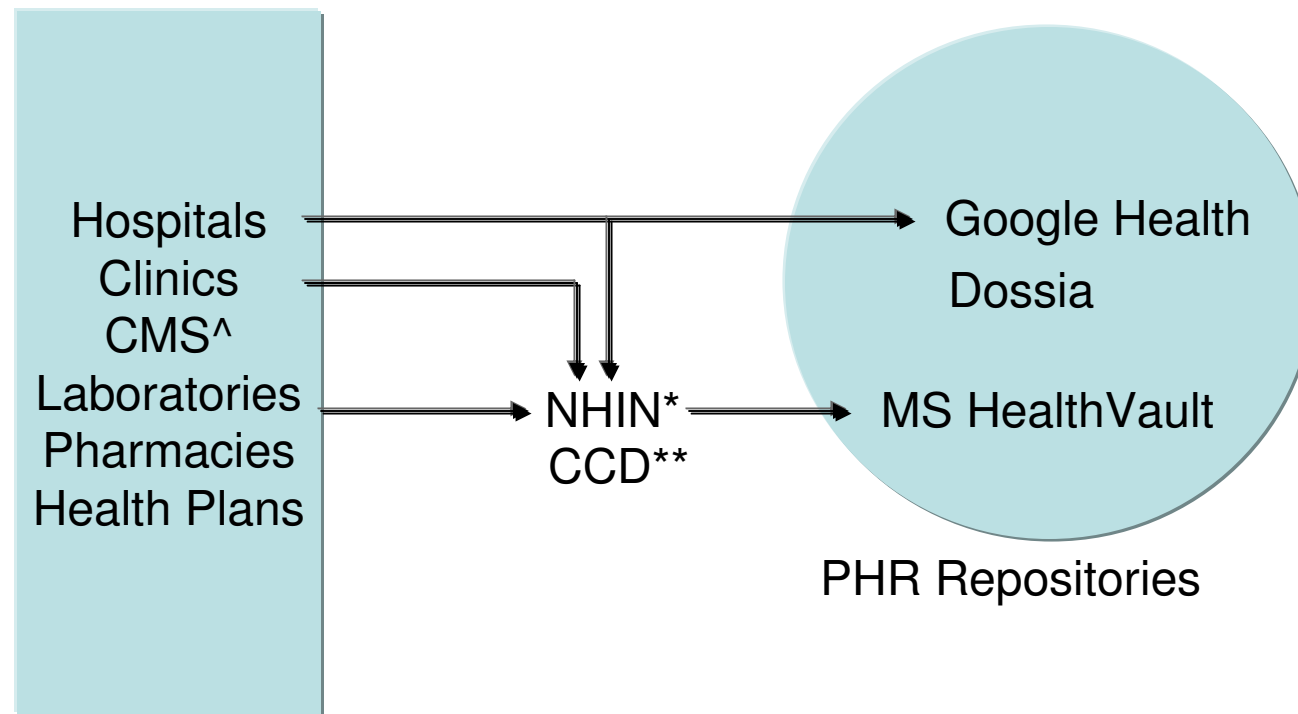
# Value of PHR

- Serves as a communication hub to provide relevant information to physicians during decision making or health emergencies, to convey results of tests and treatment plans, and to transmit secured electronic messages between patients and providers
- Lays the foundation for consumer empowerment which can lead to better perception of control, collaboration and responsibility over personal healthcare
- Helps to improve level of compliance with treatment, healthcare seeking behavior, healthy lifestyle choices and health outcomes

# PHR: The applications



# PHR as Vehicle for Interoperability



Health Information  
Sources

PHR Repositories

^Centers for Medicare & Medicaid Services (CMS)

\*Nationwide Health Information Network (NHIN)

\*\*Continuity of Care Document (CCD)

# Experience with Microsoft (MS) and Google

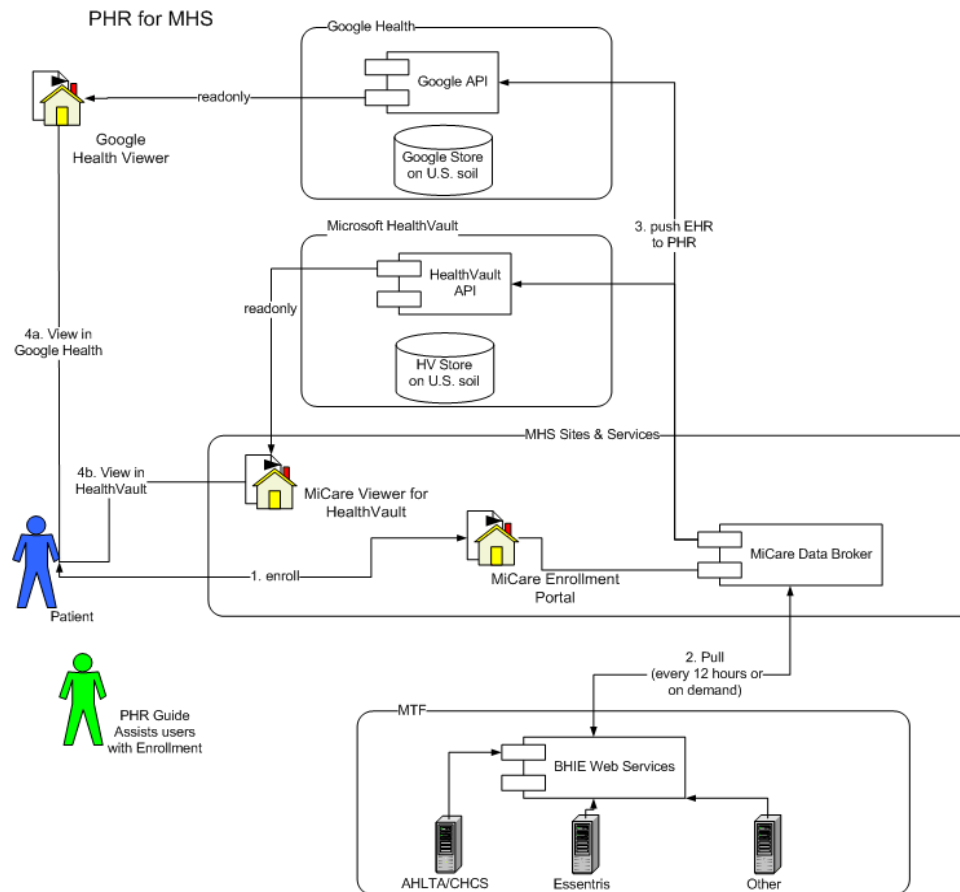
- Neither Google or MS's products natively handle all the primary data from AHLTA. It requires development to organize and more efficiently render the data to improve the customer experience
- Both MS and Google can:
  - securely store data
  - offer robust services at no cost to the user or organization
  - provide advanced search engines tailored to medical information and resources
- MS offers excellent sharing tools that provide a high granularity of detail for what is shared with others
- Google offers an easy to navigate dashboard



# DoD Privacy Requirements

- All data to be hosted on US soil
- No aggregation of data even if only displayed to individual patient
- Procedures for data breach to be clearly defined for patients
- Written consent from patients must be obtained for any studies
- Data passed to MS/Google is encrypted

# Architecture

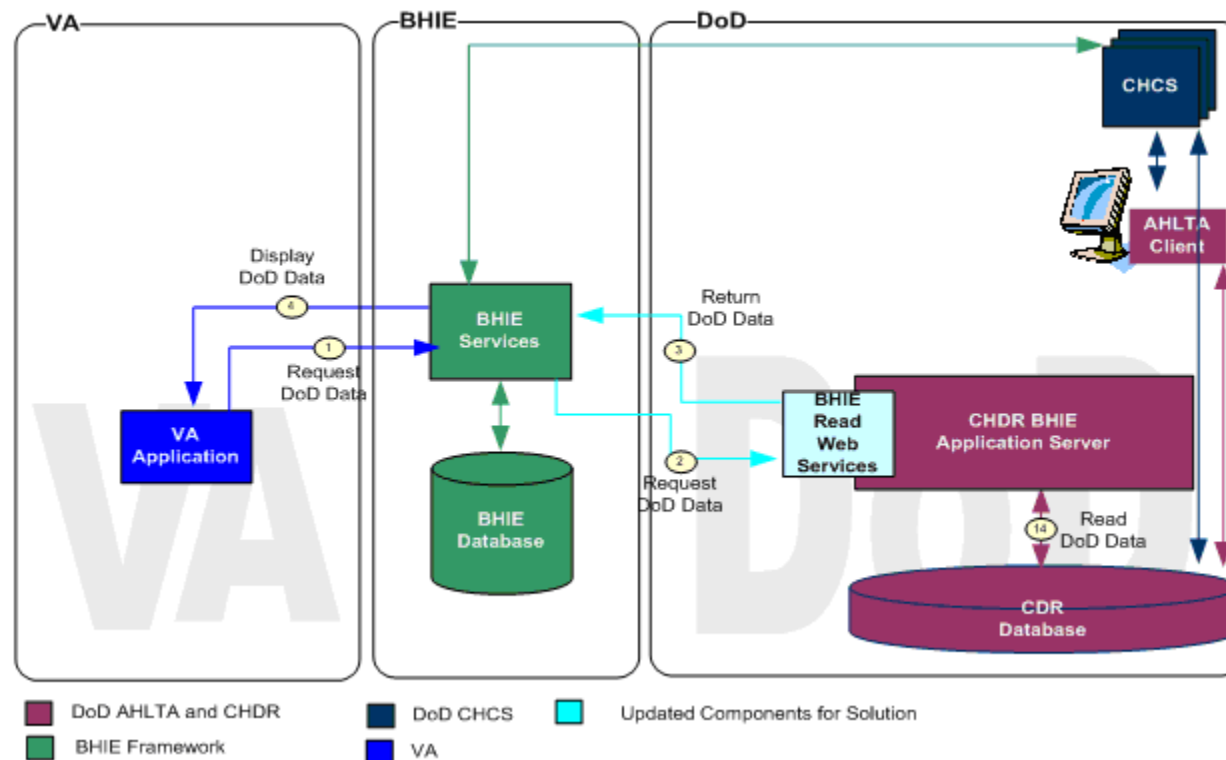


Patient decides:

1. What data to transmit
2. Where to send data
3. How to view data



# Architecture (Bi-directional Health Information Exchange (BHIE) Overlay)



# Work Flow

## Beneficiary Work Flow



## System Work Flow



# MiCare Demonstration



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## Contact Us

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## MiCare Login

**If you do not have a CAC, enter your user name and password and press the "Log In" button.**

User Name:

Password:

☐ Remember me.

[Forgot Password?](#)

**If you do have a CAC, press the "CAC Login" button**

Don't have a MyCare Account?  
[Signing up is easy.](#)





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#### Common Access Card (CAC) Login

If you do not have a CAC, you can meet with an Authentication Specialist. They will assist you with establishing a new account.

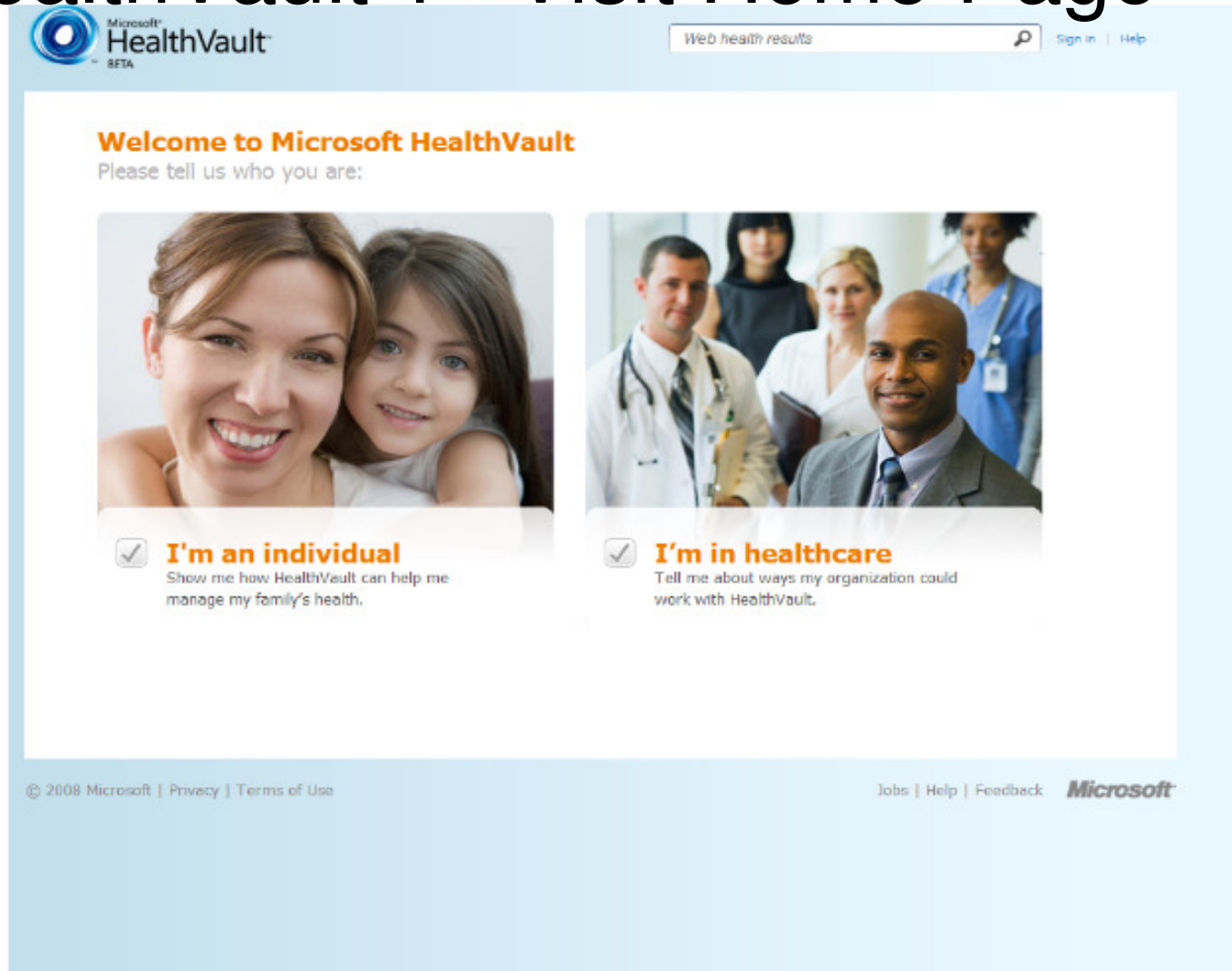
If you do have a CAC, press the "CAC Login" button

CAC Login





# HealthVault 1<sup>st</sup> Visit Home Page



# HealthVault 'Personal' Page

**Microsoft HealthVault**  
Web Health Results [Sign in](#) [Help](#)

[Learn about HealthVault](#) [Learn about Devices](#) [Web Application Directory](#) [Device Directory](#) [Personal](#)

## Welcome to Microsoft HealthVault

Be well. Connected.

Make more informed health decisions for you and your family. Store your health information in one convenient place and share it with others you trust. Explore a growing community of Web sites that can work with your information to help you take charge of your family's health.

[Sign in](#) [Create a free HealthVault account](#)

### Organize and manage

Get a free account to store health data from many sources for you and anyone else whose health is your responsibility.

### Share and connect

Let family members, doctors and others see health information that you choose to share.

### Learn and use

Track your exercise and monitor health conditions at home with personal devices, from blood pressure monitors to heart rate monitors, and use your data on Web sites that connect with HealthVault.

### Use HealthVault to...

- Organize your health information
- Manage health conditions
- Get healthy and fit, and stay that way
- Make the most of visits to the doctor

HealthVault helps you connect with doctors, hospitals, personal health and fitness devices and dozens of health sites on the Web to help you achieve your health goals.

[Find out how](#)

### HealthVault and your privacy


You control your health information. You decide who can share it, and what they can share. We always ask for consent before allowing another person or Web site to access health information.

[Learn more](#)

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# Google Health's Profile Page


rbarnh@gmail.com | [Feedback](#) | [Settings](#) | [Help](#) | [Sign out](#)





Your profile has changed. To view the up to date information, please click on [Refresh](#)


**rbarnh**

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43 years old  
Male

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